

NATIONAL BUREAU OF STANDARDS REPORT

NBS PROJECT

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THE EFFECT OF SURFACE REACTIONS ON FATIGUE FAILURE

Quarterly Status Report
September 1 to November 30, 1965

By

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To

National Aeronautics and Space Administration
Order No. R-14, Amendment No. 5

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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

**THE EFFECT OF SURFACE REACTIONS
ON FATIGUE FAILURE**

**Quarterly Status Report
September 1 to November 30, 1965**

This project was authorized for the period September 1, 1965 to August 31, 1966, by National Aeronautics and Space Administration Purchase Order No. R-14, Amendment No. 5. The last project status report was submitted to the National Aeronautics and Space Administration in NBS Report 8968 dated September 21, 1965.

During this reporting period the polishing of the vacuum melted 4340 steel specimens was completed. Fatigue testing of these specimens in both moist and very dry air has begun, but it is too early in the investigation to indicate any significant trends.

During the next reporting period, tests on the steel will be continued.